



## 2.13.1 Practice: Assignment Name: Isaiah Singh Date: 4/22/2020

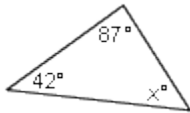
ALS Liberal Arts Math 1 Sem 2

Points Possible: 40

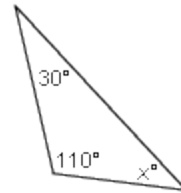
Answer the following questions using what you've learned from this unit. Write your responses in the space provided.

Scoring: Each question is worth 2 points.

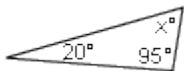
For questions 1 – 4, find the missing angle of the triangle.



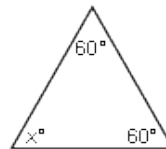
1. Answer:  $51^\circ$



2. Answer:  $40^\circ$



3. Answer:  $65^\circ$

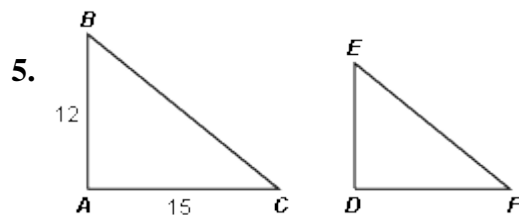


4. Answer:  $60^\circ$

For questions 5 – 10, answer the questions about triangles.

If  $\triangle ABC \sim \triangle DEF$  and the scale factor from

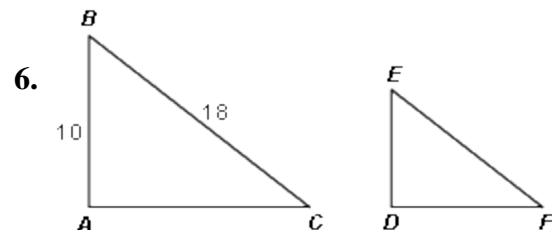
$\triangle ABC$  to  $\triangle DEF$  is  $\frac{3}{4}$ , what is the length of  $\overline{DF}$ ?



Answer: 3

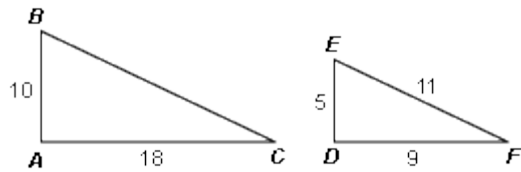
If  $\triangle ABC \sim \triangle DEF$  and the scale factor from

$\triangle ABC$  to  $\triangle DEF$  is  $\frac{1}{2}$ , what is the length of  $\overline{ED}$ ?



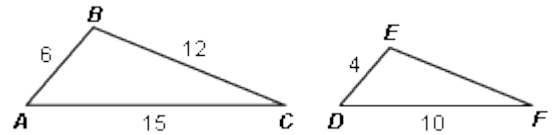
Answer: 8

If  $\triangle ABC \sim \triangle DEF$  what is the length of  $\overline{BC}$ ?



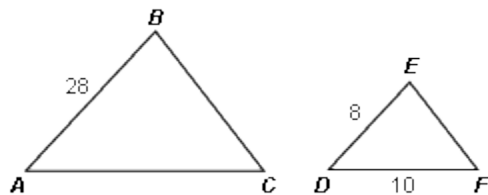
7. Answer: 6

If  $\triangle ABC \sim \triangle DEF$  what is the length of  $\overline{EF}$ ?



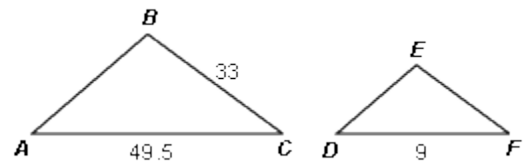
8. Answer: 9

If  $\triangle ABC \sim \triangle DEF$  what is the length of  $\overline{AC}$ ?



9. Answer: 7

If  $\triangle ABC \sim \triangle DEF$  what is the length of  $\overline{EF}$ ?



10. Answer: 6

For questions 11 – 14, find the value of  $x$  in the given ratio.

$$\frac{2}{3} = \frac{x}{15}$$

11. Answer:  $x = 10$

$$\frac{2x}{5} = \frac{14}{30}$$

12. Answer:  $7/6$

$$\frac{6}{10} = \frac{30}{x}$$

13. Answer: 50

$$\frac{12}{4x} = \frac{60}{10}$$

14. Answer:  $1/2$

For questions 15 – 16, answer the questions about ratios.

If a restaurant sells 210 pizzas per day and wants a ratio of 3 drinks sold per pizza, how many drinks would they need to sell?

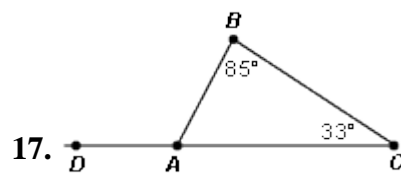
If a driving school has 492 students and wants to have a ratio of 12 students per car, how many cars would they need?

**15. Answer: 630 Drinks**

**16. Answer: 41 Cars**

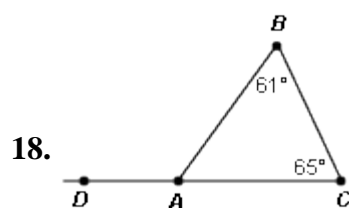
For questions 17 – 20, answer the questions about angles

What is the measure of  $\angle DAB$ ?



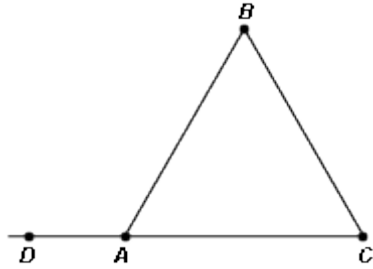
**Answer: 118 Degrees**

What is the measure of  $\angle DAB$ ?



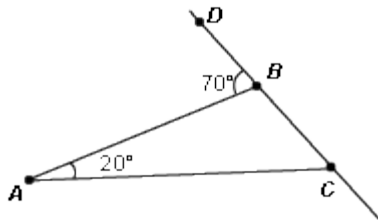
**Answer: 125 Degrees**

19. If  $\triangle ABC$  is an equilateral triangle, what is the measure of  $\angle DAB$ ?



**Answer: 120 Degrees**

20. What is the measure of  $\angle ACB$ ?



**Answer: 90 Degrees**